



1

SEQUENCE LISTING

<110> MIKOSHIBA, KATSUMI
MIZUTANI, AKIHIRO

<120> RNA-BINDING PROTEIN

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<140> 09/821,687

<141> 2001-03-30

<150> JP 2000-299812

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aaa gct cag agg caa gca gca aag aat caa atg tat gat gat tac tac 96
Lys Ala Gln Arg Gln Ala Ala Lys Asn Gln Met Tyr Asp Asp Tyr Tyr
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tat tat ggt cca cct cat atg cct ccc cca aca aga ggt cga ggg cgt 144
Tyr Tyr Gly Pro Pro His Met Pro Pro Pro Thr Arg Gly Arg Gly Arg
35 40 45

gga ggt aga ggt ggc tat gga tat cct cca gat tat tat gga tac gaa 192
Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr Glu
50 55 60

gat tat tat gat tat tat ggt tat gat tac cat aac tat cgt ggt gga 240
Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly Gly
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tat gaa gat cca tac tat ggt tat gaa gat ttt caa gtt gga gct aga 288
Tyr Glu Asp Pro Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala Arg
85 90 95

gga agg ggt ggt aga gga gca agg ggt gct gct cca tcc aga ggt cgt 336
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 Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly Gly
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 cct gga tca gca aga ggc gtt cgc ggt gcg aga gga ggt gcc caa caa 432
 Pro Gly Ser Ala Arg Gly Val Arg Gly Ala Arg Gly Gly Ala Gln Gln
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 Gln

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 35 40 45

 Gly Gly Arg Gly Gly Tyr Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr Glu
 50 55 60

 Asp Tyr Tyr Asp Tyr Tyr Gly Tyr Asp Tyr His Asn Tyr Arg Gly Gly
 65 70 75 80

 Tyr Glu Asp Pro Tyr Tyr Gly Tyr Glu Asp Phe Gln Val Gly Ala Arg
 85 90 95

 Gly Arg Gly Gly Arg Gly Ala Arg Gly Ala Ala Pro Ser Arg Gly Arg
 100 105 110

 Gly Ala Ala Pro Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly Gly
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cggccccagc cccgcgggga gatctctgga aac atg gct aca gaa cat gtt aat 174
                               Met Ala Thr Glu His Val Asn
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Gly Asn Gly Thr Glu Glu Pro Met Asp Thr Thr Ser Ala Val Ile His
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Ser Glu Asn Phe Gln Thr Leu Leu Asp Ala Gly Leu Pro Gln Lys Val
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gct gaa aaa cta gat gaa att tac gtt gca ggg cta gtt gca cat agt 318
Ala Glu Lys Leu Asp Glu Ile Tyr Val Ala Gly Leu Val Ala His Ser
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Asp Leu Asp Glu Arg Ala Ile Glu Ala Leu Lys Glu Phe Asn Glu Asp
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Val Gln Asn Lys Ser Ala Phe Leu Cys Gly Val Met Lys Thr Tyr Arg
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| aaa gct gga cct ata tgg gat ctt cgt tta atg atg gat ccg ctc act | 750 |
| Lys Ala Gly Pro Ile Trp Asp Leu Arg Leu Met Met Asp Pro Leu Thr | |
| 185 190 195 | |
| ggt ctc aac aga ggt tat gcg ttt gtc act ttt tgt aca aaa gaa gca | 798 |
| Gly Leu Asn Arg Gly Tyr Ala Phe Val Thr Phe Cys Thr Lys Glu Ala | |
| 200 205 210 215 | |
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| Ala Gln Glu Ala Val Lys Leu Tyr Asn Asn His Glu Ile Arg Ser Gly | |
| 220 225 230 | |
| aag cac att ggt gtc tgc atc tca gtt gcc aac aat agg ctt ttt gtg | 894 |
| Lys His Ile Gly Val Cys Ile Ser Val Ala Asn Asn Arg Leu Phe Val | |
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| Gly Ser Ile Pro Lys Ser Lys Thr Lys Glu Gln Ile Leu Glu Glu Phe | |
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| Ser Lys Val Thr Glu Gly Leu Thr Asp Val Ile Leu Tyr His Gln Pro | |
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| gat gac aag aaa aaa aac aga ggc ttt tgc ttt ctt gaa tat gaa gat | 1038 |
| Asp Asp Lys Lys Lys Asn Arg Gly Phe Cys Phe Leu Glu Tyr Glu Asp | |
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| cac aaa aca gct gcc cag gca aga cgt agg cta atg agt ggt aaa gtc | 1086 |
| His Lys Thr Ala Ala Gln Ala Arg Arg Arg Leu Met Ser Gly Lys Val | |
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| aaa gtc tgg gga aat gtt gga act gtt gag tgg gct gat cct att gaa | 1134 |
| Lys Val Trp Gly Asn Val Gly Thr Val Glu Trp Ala Asp Pro Ile Glu | |
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| gat cct gat cct gaa gtt atg gca aag gta aaa gtg ctg ttt gta cgc | 1182 |
| Asp Pro Asp Pro Glu Val Met Ala Lys Val Lys Val Leu Phe Val Arg | |
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| Asn Leu Ala Asn Thr Val Thr Glu Glu Ile Leu Glu Lys Ser Phe Ser | |
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| cag ttt ggg aaa ctg gaa cga gta aag aag cta aaa gat tat gct ttc | 1278 |
| Gln Phe Gly Lys Leu Glu Arg Val Lys Lys Leu Lys Asp Tyr Ala Phe | |
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| att cat ttt gat gag aga gat ggt gct gtc aag gct atg gaa gaa atg | 1326 |
| Ile His Phe Asp Glu Arg Asp Gly Ala Val Lys Ala Met Glu Glu Met | |
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Ala Gly Leu Val Ala His Ser Asp Leu Asp Glu Arg Ala Ile Glu Ala
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| 65 | | | | | 70 | | | | | 75 | | | | | 80 | |
| Lys | Asp | Ser | Asp | Leu | Ser | His | Val | Gln | Asn | Lys | Ser | Ala | Phe | Leu | Cys | |
| | | | | 85 | | | | | 90 | | | | | 95 | | |
| Gly | Val | Met | Lys | Thr | Tyr | Arg | Gln | Arg | Glu | Lys | Gln | Gly | Thr | Lys | Val | |
| | | | 100 | | | | | 105 | | | | | 110 | | | |
| Ala | Asp | Ser | Ser | Lys | Gly | Pro | Asp | Glu | Ala | Lys | Ile | Lys | Ala | Leu | Leu | |
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| Glu | Arg | Thr | Gly | Tyr | Thr | Leu | Asp | Val | Thr | Thr | Gly | Gln | Arg | Lys | Tyr | |
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| Gly | Gly | Pro | Pro | Pro | Asp | Ser | Val | Tyr | Ser | Gly | Gln | Gln | Pro | Ser | Val | |
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| Gly | Thr | Glu | Ile | Phe | Val | Gly | Lys | Ile | Pro | Arg | Asp | Leu | Phe | Glu | Asp | |
| | | | | 165 | | | | 170 | | | | | | 175 | | |
| Glu | Leu | Val | Pro | Leu | Phe | Glu | Lys | Ala | Gly | Pro | Ile | Trp | Asp | Leu | Arg | |
| | | | 180 | | | | | 185 | | | | | 190 | | | |
| Leu | Met | Met | Asp | Pro | Leu | Thr | Gly | Leu | Asn | Arg | Gly | Tyr | Ala | Phe | Val | |
| | | 195 | | | | | 200 | | | | | 205 | | | | |
| Thr | Phe | Cys | Thr | Lys | Glu | Ala | Ala | Gln | Glu | Ala | Val | Lys | Leu | Tyr | Asn | |
| | 210 | | | | | 215 | | | | | 220 | | | | | |
| Asn | His | Glu | Ile | Arg | Ser | Gly | Lys | His | Ile | Gly | Val | Cys | Ile | Ser | Val | |
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| Ala | Asn | Asn | Arg | Leu | Phe | Val | Gly | Ser | Ile | Pro | Lys | Ser | Lys | Thr | Lys | |
| | | | | 245 | | | | | 250 | | | | | 255 | | |
| Glu | Gln | Ile | Leu | Glu | Glu | Phe | Ser | Lys | Val | Thr | Glu | Gly | Leu | Thr | Asp | |
| | | | 260 | | | | | 265 | | | | | 270 | | | |
| Val | Ile | Leu | Tyr | His | Gln | Pro | Asp | Asp | Lys | Lys | Lys | Asn | Arg | Gly | Phe | |
| | | 275 | | | | | 280 | | | | | 285 | | | | |
| Cys | Phe | Leu | Glu | Tyr | Glu | Asp | His | Lys | Thr | Ala | Ala | Gln | Ala | Arg | Arg | |
| | 290 | | | | | 295 | | | | | 300 | | | | | |
| Arg | Leu | Met | Ser | Gly | Lys | Val | Lys | Val | Trp | Gly | Asn | Val | Gly | Thr | Val | |
| 305 | | | | | 310 | | | | | 315 | | | | | 320 | |
| Glu | Trp | Ala | Asp | Pro | Ile | Glu | Asp | Pro | Asp | Pro | Glu | Val | Met | Ala | Lys | |
| | | | | 325 | | | | | 330 | | | | | 335 | | |
| Val | Lys | Val | Leu | Phe | Val | Arg | Asn | Leu | Ala | Asn | Thr | Val | Thr | Glu | Glu | |
| | | | 340 | | | | | 345 | | | | | 350 | | | |
| Ile | Leu | Glu | Lys | Ser | Phe | Ser | Gln | Phe | Gly | Lys | Leu | Glu | Arg | Val | Lys | |
| | | 355 | | | | | 360 | | | | | 365 | | | | |

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35 40 45

Ile Phe Gln Thr Gly Leu Val Ala Tyr Val Asp Leu Asp Glu Arg Ala
50 55 60

Ile Asp Ala Leu Arg Glu Phe Asn Glu Glu Gly Ala Leu Ser Val Leu
65 70 75 80

Gln Gln Phe Lys Glu Ser Asp Leu Ser His Val Gln Asn Lys Ser Ala
85 90 95

Phe Leu Cys Gly Val Met Lys Thr Tyr Arg Gln Arg Glu Lys Gln Gly
100 105 110

Ser Lys Val Gln Glu Ser Thr Lys Gly Pro Asp Glu Ala Lys Ile Lys
115 120 125

Ala Leu Leu Glu Arg Thr Gly Tyr Thr Leu Asp Val Thr Thr Gly Gln
130 135 140

Arg Lys Tyr Gly Gly Pro Pro Pro Asp Ser Val Tyr Ser Gly Val Gln
145 150 155 160

Pro Gly Ile Gly Thr Glu Val Phe Val Gly Lys Ile Pro Arg Asp Leu
165 170 175

Tyr Glu Asp Glu Leu Val Pro Leu Phe Glu Lys Ala Gly Pro Ile Trp
180 185 190

Asp Leu Arg Leu Met Met Asp Pro Leu Ser Gly Gln Asn Arg Gly Tyr
195 200 205

Ala Phe Ile Thr Phe Cys Gly Lys Glu Ala Ala Gln Glu Ala Val Lys
210 215 220

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| | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Leu | Cys | Asp | Ser | Tyr | Glu | Ile | Arg | Pro | Gly | Lys | His | Leu | Gly | Val | Cys |
| 225 | | | | | 230 | | | | | 235 | | | | | 240 |
| Ile | Ser | Val | Ala | Asn | Asn | Arg | Leu | Phe | Val | Gly | Ser | Ile | Pro | Lys | Asn |
| | | | | 245 | | | | | 250 | | | | | 255 | |
| Lys | Thr | Lys | Glu | Asn | Ile | Leu | Glu | Glu | Phe | Ser | Lys | Val | Thr | Glu | Gly |
| | | | 260 | | | | | 265 | | | | | 270 | | |
| Leu | Val | Asp | Val | Ile | Leu | Tyr | His | Gln | Pro | Asp | Asp | Lys | Lys | Lys | Asn |
| | | 275 | | | | | 280 | | | | | 285 | | | |
| Arg | Gly | Phe | Cys | Phe | Leu | Glu | Tyr | Glu | Asp | His | Lys | Ser | Ala | Ala | Gln |
| | 290 | | | | | 295 | | | | 300 | | | | | |
| Ala | Arg | Arg | Arg | Leu | Met | Ser | Gly | Lys | Val | Lys | Val | Trp | Gly | Asn | Val |
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| Val | Thr | Val | Glu | Trp | Ala | Asp | Pro | Val | Glu | Glu | Pro | Asp | Pro | Glu | Val |
| | | | | 325 | | | | | 330 | | | | | 335 | |
| Met | Ala | Lys | Val | Lys | Val | Leu | Phe | Val | Arg | Asn | Leu | Ala | Thr | Thr | Val |
| | | | 340 | | | | | 345 | | | | | 350 | | |
| Thr | Glu | Glu | Ile | Leu | Glu | Lys | Ser | Phe | Ser | Glu | Phe | Gly | Lys | Leu | Glu |
| | | 355 | | | | | 360 | | | | | 365 | | | |
| Arg | Val | Lys | Lys | Leu | Lys | Asp | Tyr | Ala | Phe | Val | His | Phe | Glu | Asp | Arg |
| | 370 | | | | | 375 | | | | | 380 | | | | |
| Gly | Ala | Ala | Val | Lys | Ala | Met | Asp | Glu | Met | Asn | Gly | Lys | Glu | Ile | Glu |
| 385 | | | | | 390 | | | | | 395 | | | | | 400 |
| Gly | Glu | Glu | Ile | Glu | Ile | Val | Leu | Ala | Lys | Pro | Pro | Asp | Lys | Lys | Arg |
| | | | | 405 | | | | | 410 | | | | | 415 | |
| Lys | Glu | Arg | Gln | Ala | Ala | Arg | Gln | Ala | Ser | Arg | Ser | Thr | Ala | Tyr | Glu |
| | | | 420 | | | | | 425 | | | | | 430 | | |
| Asp | Tyr | Tyr | Tyr | His | Pro | Pro | Pro | Arg | Met | Pro | Pro | Pro | Ile | Arg | Gly |
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| Arg | Gly | Arg | Gly | Gly | Gly | Arg | Gly | Gly | Tyr | Gly | Tyr | Pro | Pro | Asp | Tyr |
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| Tyr | Gly | Tyr | Glu | Asp | Tyr | Tyr | Asp | Asp | Tyr | Tyr | Gly | Tyr | Asp | Tyr | His |
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| Tyr | Ala | Val | Arg | Gly | Arg | Gly | Gly | Gly | Arg | Gly | Gly | Arg | Gly | Ala | Pro |
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| Pro | Pro | Pro | Arg | Gly | Arg | Gly | Ala | Pro | Pro | Pro | Arg | Gly | Arg | Ala | Gly |
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Tyr Ser Gln Arg Gly Ala Pro Leu Gly Pro Pro Arg Gly Ser Arg Gly
530 535 540

Gly Arg Gly Gly Pro Ala Gln Gln Gln Arg Gly Arg Gly Ser Arg Gly
545 550 555 560

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565 570 575

Gly Tyr Asn Gln Pro Asp Ser Lys Arg Arg Gln Thr Asn Asn Gln Gln
580 585 590

Asn Trp Gly Ser Gln Pro Ile Ala Gln Gln Pro Leu Gln Gln Gly Gly
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35 40 45

Arg Asn Leu Ala Thr Thr Val Thr Glu Glu Ile Leu Glu Lys Ser Phe
50 55 60

Ser Glu Phe Gly Lys Leu Glu Arg Val Lys Lys Leu Lys Asp Tyr Ala
65 70 75 80

Phe Val His Phe Glu Asp Arg Gly Ala Ala Val Lys Ala Met Asp Glu
85 90 95

Met Asn Gly Lys Glu Ile Glu Gly Glu Glu Ile Glu Ile Val Leu Ala
100 105 110

Lys Pro Pro Asp Lys Lys Arg Lys Glu Arg Gln Ala Ala Arg Gln Ala
115 120 125

Ser Arg Ser Thr Ala Tyr Glu Asp Tyr Tyr Tyr His Pro Pro Pro Arg
130 135 140

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Met Pro Pro Pro Met Arg Gly Arg Gly Arg Gly Gly Arg Gly Gly Tyr
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 Gly Tyr Pro Pro Asp Tyr Tyr Gly Tyr Glu Asp Tyr Tyr Asp Asp Tyr
 165 170 175
 Tyr Gly Tyr Asp Tyr His Asp Tyr Arg Gly Gly Tyr Glu Asp Pro Tyr
 180 185 190
 Tyr Gly Tyr Asp Asp Gly Tyr Ala Val Arg Gly Arg Gly Gly Gly Arg
 195 200 205
 Gly Gly Arg Gly Ala Pro Pro Pro Pro Arg Gly Arg Gly Ala Pro Pro
 210 215 220
 Pro Arg Gly Arg Ala Gly Tyr Ser Gln Arg Gly Ala Pro Leu Gly Pro
 225 230 235 240
 Pro Arg Gly Ser Arg Gly Gly Arg Gly Gly Pro Ala Gln Gln Gln Arg
 245 250 255
 Gly Arg Gly Ser Arg Gly Ala Arg Gly Asn Arg Gly Gly Asn Val Gly
 260 265 270
 Gly Lys Arg Lys Ala Asp Gly Tyr Asn Gln Pro Asp Ser Lys Arg Arg
 275 280 285
 Gln Thr Asn Asn Gln Gln Asn Trp Gly Ser Gln Pro Ile Ala Gln Gln
 290 295 300
 Pro Leu Gln Gln Gly Gly Asp Tyr Ser Gly Asn Tyr Gly Tyr Asn Asn
 305 310 315 320
 Asp Asn Gln Glu Phe Tyr Gln Asp Thr Tyr Gly Gln Gln Trp Lys
 325 330 335

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